

**Please delete the present Abstract of the Disclosure and replace it with the following new Abstract of the Disclosure.**

A method for measuring a thiol group-containing compound, which comprises the steps of (1) contacting a sample containing a thiol group-containing compound with a thin membrane comprising a microparticle of a substance selected from the group consisting of a metal and a metal compound and comprising a hydrophilic binder; and (2) detecting a color change on the thin membrane resulting from interaction of the thiol group-containing compound and the microparticle, and a thin membrane used for said method. A thiol group containing compound such as an alkylmercaptan or a protein containing thiol groups can be conveniently and accurately measured.